



Australian Government

Assessment Requirements for MEAMEC0063 Repair and overhaul gas turbine engine air inlet and compressor components and modules

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Modification History

Release 1. Unit code and title changed. Application changed. Performance Criteria changed. Foundation Skills made explicit. Range of Conditions removed, and relevant information moved to Assessment Requirements. Assessment Requirements clarified. Supersedes and is equivalent to MEA383 Repair and/or overhaul gas turbine engine air inlet and compressor components and/or modules.

Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and demonstrated the ability to:

- repair and overhaul at least one item from each of the following groups:
 - air inlet structure and blow-in doors where these items are part of an engine change unit or engine module
 - fans (may be omitted if not applicable to the enterprise)
 - inlet guide vanes
 - centrifugal or axial flow compressor assemblies (low and high pressure)
 - compressor bleed valves (may be omitted if not applicable to the enterprise)
- during the above work, or separately, demonstrate the following repair processes:
 - finish or re-finish metal surfaces through processes
 - remove corrosion within maintenance manual limits
 - replace seals and backing rings
 - replace bearings
 - apply surface treatments
 - restore paint finishes.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- how to obtain relevant material safety data sheets (MSDSs)
- the use of applicable items of personal protective equipment (PPE) for gas turbine engine air inlets and compressor components
- work health and safety (WHS) procedures for gas turbine engine air inlets and compressor components
- fault diagnosis techniques for gas turbine engine air inlets and compressor components
- gas turbine engine air inlet system and compressor component operation

- repair and overhaul procedures and processes, including inspection, rework, repair and reclamation, assembly, balancing of rotating assemblies and final adjustment
- types of surface treatments and their application
- correct use of fuels and lubricants.

Assessment Conditions

The following conditions of assessment represent the requirements of the regulators Defence Aviation Safety Authority (DASA) and Civil Aviation Safety Authority (CASA) and maintenance stakeholders and must be rigorously observed.

Skills must have been demonstrated under routine supervision in the workplace or in a simulated environment that reflects workplace conditions and contingencies encountered in repairing and overhauling gas turbine engine air inlet and compressor components and modules. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - workplace procedures, manufacturing specifications, codes, standards, manuals, and reference materials relevant to repairing and overhauling gas turbine engine air inlet and compressor components and modules
 - components, modules, tools and equipment specified in maintenance documentation.
 - general-purpose tools and test equipment found in most routine situations.

Evidence of tasks demonstrating competency must be recorded in a log of industrial experience and achievement.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=ce216c9c-04d5-4b3b-9bcf-4e81d0950371>